

FUEL CELL DEVICE

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ABSTRACT OF THE DISCLOSURE

A fuel cell device comprising: two vertically  
arranged cylindrical fuel cells different in diameter,  
10 each comprising a solid-electrolyte layer having first  
and second surfaces, an anode layer formed on the first  
surface of the solid-electrolyte layer, and a cathode  
layer formed on the other surface of the solid-  
electrolyte layer. The two fuel cells are mutually  
15 arranged in such a manner that the anode layer of one of  
the fuel cells faces the anode layer of the other fuel  
cell with a predetermined space between them and the  
space extends vertically from a lower position to an  
upper position. A fuel supply unit is provided for  
20 supplying fuel into the space at the lower position  
thereof so that a flame is formed, in the space, in an  
upward direction in which the space extends.